ALPHA-60M MINI HIGH PERFORMANCE CCD BARCODE SCANNER MODULE

¤@¡ Introduction

Alpha-60M is ZEBEX brand new design high performance in an ultra-small package barcode scanner module.ALPHA-60M use 3000 pixel 7*200 micro meter high density CCD array and Ultra-short focal length optic system, which remarkably enhance CCD receiving efficiency.and easy to integrate into your new equipment design.

Alpha-60M uses popular multi-interface including keyboard wedge, C-MOS series, RS-232C series, Wand emulatior etc. The user can change the scanner to another interface simply by replacing the cable and reconfiguration to a specific communication setup.

The scanner remains in the last interface mode whenever the scanner is reset. The user ought to scan the emulation keyboard type e.g. IBM AT or RS-232C or Wand Emulation label and specific parameter labels to operate the scanner properly if the intends to use another interface mode.

The other hand for RS-232 user's, the device configuration can be changed by receiving command from the Host through the serial interface.

¤G ¦BPECIFICATIONS

OPTICAL

Optics System	3000 Pixels CCD
Resolution	0.1mm(4mil)
Min. PCS Value	30°
Light Source	Visible LED (Wave length 660nm)
Scanning speed	160 scans/sec
Reading distance	25mm(EAN*1, PCS =90%)

ELECTRICAL

Supply Voltage	5VDC±5%
Operating Current	100mA typical

ENVIRONMENT

Operating Temp.	0°C~40°C
Storage Temp.	-20°C~60°C
Humidity	20% RH TO 85% RH (non-condensing of dew)

MECHANICAL

Cable Length	Straight
Weight	45g (1.6 oz) exclude cable
Case Material	Without case

MULTI-INTERFACE

Keyboard Emulation, C-MOS Serial and Wand Emulation all in one units.

TYPE OF KEYBOARD EMULATED

IBM PC/XT/AT, IBM PS/2 Model 30-80, IBM 5550, 5530-SC, 5530-ZC, IBM 3196, 472/3477, 5395 Terminal, NEC 9801, Apple MACII and more.....

READABLE CODES

Code 39, Full ASCII Code 39, Interleaved 2 of 5, UPC A, UPC E, EAN/JAN 8, EAN/JAN 13, ISBN/ISSN, Code 128, Code 93, Codabar, Chinese post code, IATA, MSI, Plessy, EAN-128, Code 32

OPTION:STD 2 of 5, Matrix 2 of 5, Code 11

PROGRAMMABLE CHARACTERISTICS

BUILT-IN DECODER:

Type of Interface

Code Type Selection, Check Digit Selection

Decoding Option

Transmitted Character Delay

Header Selection, Trailer Selection

Good Read Beep Tone

Bar-code Identifier

External I/O trigger or command trigger

KEYBOARD EMULATION TYPE:

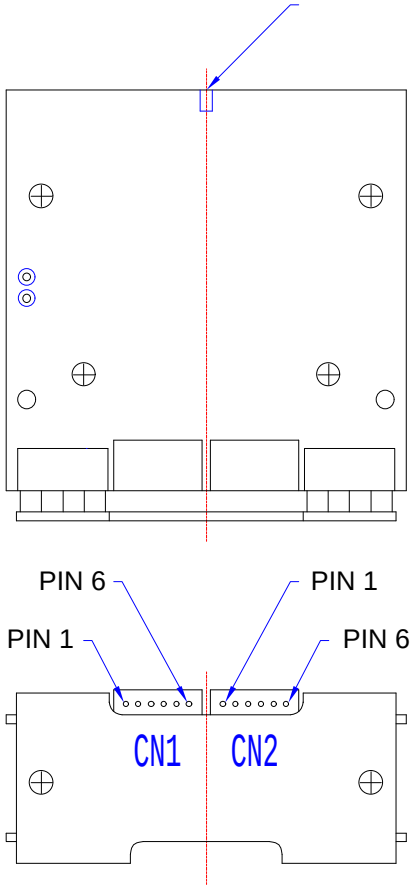
Inter-message Delay, Keyboard Type and Keyboard Language

SERIAL INTERFACE TYPE:

ACK/NAK, Xon/Xoff, RTS/XTS, BAUD RATE, DATA BIT, SOTP BIT, PARITY

Via RS-232C command programmable

¤ Tj BPIN Definition for ALPHA-60M

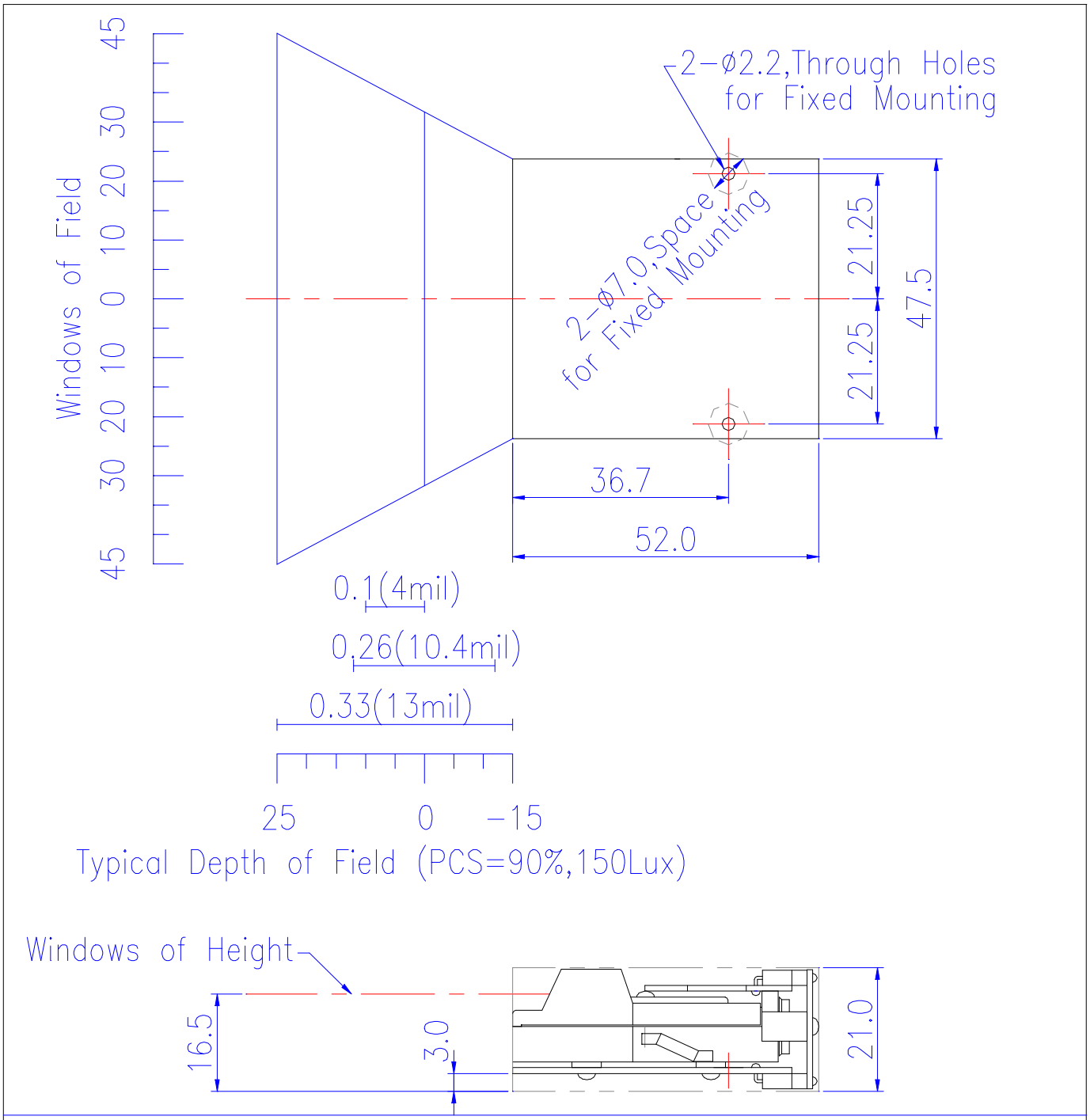


CN1	Wire color	DESCRIPTION
1	Black	PC data (for keyboard wedge)
2	brown	PC Clock (for keyboard wedge)
3	Red	+5V
4	Orange	GND
5	Yellow	KB Clock (for keyboard wedge)
6	Dark green	KB data (for keyboard wedge)

CN2	Wire color	DESCRIPTION
1	Blue	CTS, Clear to send control line
2	Purple	TX, Serial data transmit to the host
3	Grey	GOOD READ OUTPUT SINGAL(C-MOS OUTPUT)
4	White	Trigger input, A low level on this input bar code
5	pink	RX, serial data received from the host
6	green	RTS, Request to send control line

NOTE 1: CN1 and CN2 is JAM 6 pin 1.0mm pitch wafer.

¥ |¡ Alpha-60M Mount and decode Zone diagram



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SIZE	SCALE	UNITS	TOL.		DESIGN	Jessie Huang
					EXAMINE	Jessie Huang
A4	1:1	mm	--		APPROVED	